INTERIOR ERGONOMICS – SIGNIFICANT DIMENSIONS IN INTERIOR DESIGN AND PLANNING: A Selected Bibliography

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Since the word "ergonomics" is not a familiar one in this country, though it is widely used in Great Britain and on the Continent, a definition of it as set forth by the Ergonomics Research Society (England) might be in order: "The study of the relation between man and his occupation, equipment and environment, and particularly the application of anatomical, physiological and psychological knowledge to problems arising therefrom."

Because this bibliography has been selected by a working interior designer with a definite view toward eventual solutions of actual problems, the selection of citations includes several disciplines not specifically mentioned in this definition, in order to fairly represent the material applicable to this rapidly developing field: sociology, anthropology, psychiatry, geography, demography, ethology, cartography, computer sciences, operations research and optics, to name a few.

Interior ergonomics is really the study of the interface between human beings and their immediate environments, as well as the

objects in them; much of this interface is contained in the ultimate environment - the interior where man spends most of his time - where he increasingly lives, loves, plays and works.

Perhaps a partial guide to the maze of entries would be helpful.

A perusal of basic books might start with reading "The Silent Language," by E.T. Hall, followed by "The Hidden Dimension," by the same author. Robert Sommer's "Personal Space: the Behavioral Basis for Design," and his "Design Awareness" might be the next steps.

Ancillary to these anthropologically and psychologically oriented works (though each of the four contains relevant material from several disciplines) would be the phenomenological books listed under Gaston Bachelard and Erving Goffman.

A next suggested step would be "Notes on the Synthesis of Form," by Christopher Alexander, both for an almost lyrical description of the design process, and for an introduction to the use of the computer in design. This might be followed by two books authored by him and his associates, "A Pattern Language Which Generates Multi-Service Centers," and "Houses Generated by Patterns." These present what may turn out to be a most useful interior ergonomics concept: developing 'patterns' for interior spaces to bring to bear as much relevant material for their design as possible.

At this point, the reader might peruse "The Bathroom: Criteria for Design," by Alexander Kira. This study is a model for the thorough investigation of design for interior spaces and contains,

as none of the previously mentioned titles do, a meticulously re-
searched discussion of the problems of human measurements encount-
ered in the design of the bathroom.

There are, of course, other basic references in this list for
the study of human measurement, also referred to as biotechnology,
anthropometry, engineering anthropology and human factors engineer-
ing. Perhaps the most important work (unfortunately, out of print)
is "The Coordinated Classroom," by Darell Boyd Harmon, since it
interrelates many problems in this area, but the works cited of H.
T.E. Hertzberg and K.H. Eberhard Kroemer are basic.

Also separately listed is a series of reports on conferences
held by various groups here and in Great Britain starting with
"Design Methods in Architecture," Geoffrey Broadbent and Anthony
Ward, editors, the National Design Seminar at Waterloo, "Emerging
Methods in Environmental Design and Planning," edited by Gary T.
Moore, "EDRA-1" (Environmental Design Research Association) edited
by Henry Sanoff and Sidney Cohn, "EDRA TWO," edited by John Archea
and Charles Eastman, "EDRA 3/AR 8(AIA Architectural Researchers)"
joint conference proceedings edited by William J. Mitchell, and
"AP/70," proceedings of the Architectural Psychology Conference at
Kingston Polytechnic, edited by Basil Honikman. "Architectural
Psychology," edited by David Canter, the proceedings of the confer-
ence at Dalandhui is unfortunately out of print.

There are five early studies of the school and office interior
environments which merit attention: "Office Design: A Study of
Environment: and "The Primary School: An Environment for Education,"

both edited by Peter Manning, as well as SER(School Environment
Research) 1, 2 and 3, C. Theodore Larson, project coordinator.
These latter three were sponsored by Educational Facilities Labor-
atories, Inc., which is supported by the Ford Foundation. It
should be noted that EFL has sponsored a significant list of pub-
lications which are gathered under the heading of Design for Edu-
cation in this list.

There are certain groups of entries which bear special mention
in special categories: For mental hospital design and psychiatric
architecture, the listings under Kyoshi Izumi and Humphry Osmond
are important.

"Spatial Behavior of Older People," edited by Leon A. Pasta-
lan and Daniel H. Carson and Gerontology Group Project entry by
Joseph A. Koncelik and his associates represent the most defini-
tive present information in this part of interior ergonomics.

One of the most advanced studies in this bibliography is Sam
A. Sloan's study of office design; however, this should be preced-
ed by reading E.T. Hall's "A System for the Notation of Proxemic
Behavior," since Sloan's work puts this system into successful
action.

No attempt has been made to completely classify the entire
bibliography; the headings of the groups are self-explanatory in
terms of the importance and focus of the citations gathered under
each group heading.

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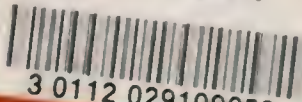
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